

You Are Not From This Planet

Humans measure Earth's complete rotation on its axis as 24 hours, or one day. And when Earth completes one orbit around the sun, the measure is 365.25 days, or one year. But not all planets in the solar system rotate or orbit at the same rate. That means there would be a difference in how you determine your age if you were to move to Mars! The amount of gravity that is present on each planet is also different so that means that there would also be a difference in how much you would weigh on each planet. Use the steps and chart below to calculate your age – in Earth years or days – and your weight on each planet in the solar system.

Steps to finding your age on different planets

A. When is your birthday?

B. How many days old were you on your last birthday?

Take your age and multiply by 365.25 =

C. How many days has it been since your last birthday?

13 – (Your birthday in number of days from January 1) + 1 =

If you have not celebrated your birthday yet this year, then add 365 to your answer =

D. How many days old are you today?

Add your results from Step B and Step C =

E. How old are you in Earth years on each planet in our solar system?

Take your result from Step D and divide by (length of planet year in Earth days), put these result in the table below.

F. How old are you in Earth days on each planet in our solar system?

Take your result from Step D and multiply by 23.934 and divide by (length of planet day in hours), put these result in the table below.

G. You have a choice for the next portion, you can either use your actual weight or you can use 100 pounds to calculate the answers. What weight will you be using?

H. How much do you weigh on other planets?

Use this [link](#) to determine your weight on other planets. Enter the calculations in the table.

Planet	Length of Year (in Earth days)	Length of Day (in Earth hours)	Your Age (in Earth years)	Your Age (in Earth days)	Gravity	Your Weight
Mercury	87.969	1407.6			.38	
Venus	224.7	5832.5			.90	
Mars	686.98	24.62			.38	
Jupiter	4330.6	9.92			2.53	
Saturn	10474	10.5			1.07	
Uranus	30588	17.24			.92	
Neptune	59800	16.11			1.12	
Pluto	90591	153.3			.06	

Conclusions:

1. Which planet would you most like to live on in terms of your age? Why?
2. Which planet would you most like to live on in terms of your weight? Why?
3. Which planet would you most like to live on in terms of sleep? Why?